PROJECT NUMBER: 2106
PROJECT TITLE: Cigarette Performance and Design
PROJECT LEADER: R. W. Dwyer
PERIOD COVERED: October, 1988

I. FILTER RESEARCH AND DEVELOPMENT

A. **Objective**: Design novel filters for achieving subjective advantages with new products.

B. **Results**: A concentric filter design was developed for the Art Program. The filter was designed to provide primarily perepheral flow at the 11-mg tar delivery level. A computer-based concentric filter design program was written and provided to the Filter Research and Development Project. These routines allow the user to select tow items for the inner and outer filter segments based on the desired flow profile, ventilation level, and filter efficiency.

C. **Conclusions**: The limited delivery data available for concentric filters suggest the current computer programs are adequte for predicting flow paths and tar deliveries. New designs have been submitted to Filtrona in order to collect additional data to validate the model.

D. **Plans**: A patent disclosure was submitted to our patent group concerning a type of concentric filter design. The design involves balanced resistances to flow in both sections, but with the sections having different efficiency materials. In this manner the delivery of core or peripheral smoke from the tobacco rod could be selectively delivered.

E. **References**: This work is being done in conjunction with the Filter Research and Development Project.

2022221550

Source: https://www.industrydocuments.ucsf.edu/docs/skkm0000